

THE EVOLUTION OF MASSIVE STARS AND BINARIES: Eta Car and Co.

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The first part of the present paper deals with massive star (initial mass $\leq 120 M_{\text{sun}}$) and very massive star (initial mass $> 120 M_{\text{sun}}$) evolution with special emphasis on objects like η Car. I discuss

- a. the effects of the ever-lasting factor 2 or more uncertainty in the stellar wind mass loss rates
- b. the effects of stellar rotation
- c. the effects of binaries
- d. the effects of stellar dynamics in dense cluster cores on the formation and evolution of very massive stars.